

#7 0360/0593


**ENTERED** OIPE

**RAW SEQUENCE LISTING**  
 PATENT APPLICATION: US/09/990,940

 DATE: 03/06/2002 P,5  
 TIME: 12:49:17

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3 <110> APPLICANT: Tian, Hui  
 4 Zhao, Jiagang  
 5 Chen, Jin-Long  
 6 Cutler, Gene  
 7 An, Songzhu  
 8 Dai, Kang  
 9 Gupte, Jamila S.  
 10 Tularik Inc.  
 12 <120> TITLE OF INVENTION: Novel Receptors  
 14 <130> FILE REFERENCE: 018781-007410US  
 16 <140> CURRENT APPLICATION NUMBER: US 09/990,940  
 17 <141> CURRENT FILING DATE: 2001-11-21  
 19 <150> PRIOR APPLICATION NUMBER: US 60/252,841  
 20 <151> PRIOR FILING DATE: 2000-11-22  
 22 <150> PRIOR APPLICATION NUMBER: US 60/257,636  
 23 <151> PRIOR FILING DATE: 2000-12-22  
 25 <150> PRIOR APPLICATION NUMBER: US 60/261,377  
 26 <151> PRIOR FILING DATE: 2001-01-12  
 28 <150> PRIOR APPLICATION NUMBER: US 60/279,554  
 29 <151> PRIOR FILING DATE: 2001-03-28  
 31 <150> PRIOR APPLICATION NUMBER: US 60/280,696  
 32 <151> PRIOR FILING DATE: 2001-03-29  
 34 <160> NUMBER OF SEQ ID NOS: 54  
 36 <170> SOFTWARE: PatentIn Ver. 2.1  
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 47 melanin-concentrating hormone receptor 2 (MCHr2)  
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 52 attgggatta tctgttcaac agggCTGGTT ggcaacatcc tcattgtatt cactataata 180  
 53 agatCCAGGA aaaaaACAGT ccctgacatc tatatctgca acctggCTGT ggctgatttg 240  
 54 gtcCACATAG ttggAAATGCC ttttcttatt caccaatggg cccgaggGGG agagtgggtg 300  
 55 tttggggggc ctctctgcac catcatcaca tccctggata cttgttaacca atttgcctgt 360  
 56 agtgcCATCA tgactgtaat gagtgtggac aggtactttg ccctcgTCa accatttcga 420  
 57 ctgacacgtt ggagaacaAG gtacaAGACC atccgatca atttgggcct ttggcagct 480  
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59 gttgagagtt gtgctttga tttgacatcc cctgacgatg tactctggta tacactttat 600  
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 62 gtacccaaac agagagtat gaagttgaca aagatggtgc tgggtgtcggt ggtagtcttt 780  
 63 atcctgagtg ctgcccccta tcattgtata caactggta acttacagat ggaacagccc 840  
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 83 20 25 30  
 84 Asp Thr Val Ile Leu Pro Ser Met Ile Gly Ile Ile Cys Ser Thr Gly  
 85 35 40 45  
 86 Leu Val Gly Asn Ile Leu Ile Val Phe Thr Ile Ile Arg Ser Arg Lys  
 87 50 55 60  
 88 Lys Thr Val Pro Asp Ile Tyr Ile Cys Asn Leu Ala Val Ala Asp Leu  
 89 65 70 75 80  
 90 Val His Ile Val Gly Met Pro Phe Leu Ile His Gln Trp Ala Arg Gly  
 91 85 90 95  
 92 Gly Glu Trp Val Phe Gly Gly Pro Leu Cys Thr Ile Ile Thr Ser Leu  
 93 100 105 110  
 94 Asp Thr Cys Asn Gln Phe Ala Cys Ser Ala Ile Met Thr Val Met Ser  
 95 115 120 125  
 96 Val Asp Arg Tyr Phe Ala Leu Val Gln Pro Phe Arg Leu Thr Arg Trp  
 97 130 135 140  
 98 Arg Thr Arg Tyr Lys Thr Ile Arg Ile Asn Leu Gly Leu Trp Ala Ala  
 99 145 150 155 160  
 100 Ser Phe Ile Leu Ala Leu Pro Val Trp Val Tyr Ser Lys Val Ile Lys  
 101 165 170 175  
 102 Phe Lys Asp Gly Val Glu Ser Cys Ala Phe Asp Leu Thr Ser Pro Asp  
 103 180 185 190  
 104 Asp Val Leu Trp Tyr Thr Leu Tyr Leu Thr Ile Thr Thr Phe Phe Phe  
 105 195 200 205  
 106 Pro Leu Pro Leu Ile Leu Val Cys Tyr Ile Leu Ile Leu Cys Tyr Thr  
 107 210 215 220  
 108 Trp Glu Met Tyr Gln Gln Asn Lys Asp Ala Arg Cys Cys Asn Pro Ser  
 109 225 230 235 240  
 110 Val Pro Lys Gln Arg Val Met Lys Leu Thr Lys Met Val Leu Val Leu  
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115 275 280 285  
116 Tyr Leu Ser Ile Cys Leu Ser Tyr Ala Ser Ser Ser Ile Asn Pro Phe  
117 290 295 300  
118 Leu Tyr Ile Leu Leu Ser Gly Asn Phe Gln Lys Arg Leu Pro Gln Ile  
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139 ggcctgtgtc acaacgcctt gctgggtgtc gccaacctac acagcaaggc cagcatgacc 180  
140 atgcccggacg tgtactttgt caacatggca gtggcaggcc tggtgctcag cgcctggcc 240  
141 cctgtgcacc tgctcggccc cccgagctcc cgggtggcgc tggggagtgt gggcggcga 300  
142 gtcacacgtgg cactgcagat ccccttcaat gtgtctcac tggtgccat gtactccacc 360  
143 gccctgtgtc gcctcgacca ctacatcgag cgtgcactgc cgcggaccta catggccagc 420  
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159 <213> ORGANISM: Homo sapiens  
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162 <223> OTHER INFORMATION: human G-protein coupled receptor (GPCR) TGR339  
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168 20 25 30

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169 Gly Leu Val Val Gly Val Pro Val Gly Leu Cys Tyr Asn Ala Leu Leu  
 170 35 40 45  
 171 Val Leu Ala Asn Leu His Ser Lys Ala Ser Met Thr Met Pro Asp Val  
 172 50 55 60  
 173 Tyr Phe Val Asn Met Ala Val Ala Gly Leu Val Leu Ser Ala Leu Ala  
 174 65 70 75 80  
 175 Pro Val His Leu Leu Gly Pro Pro Ser Ser Arg Trp Ala Leu Trp Ser  
 176 85 90 95  
 177 Val Gly Gly Glu Val His Val Ala Leu Gln Ile Pro Phe Asn Val Ser  
 178 100 105 110  
 179 Ser Leu Val Ala Met Tyr Ser Thr Ala Leu Leu Ser Leu Asp His Tyr  
 180 115 120 125  
 181 Ile Glu Arg Ala Leu Pro Arg Thr Tyr Met Ala Ser Val Tyr Asn Thr  
 182 130 135 140  
 183 Arg His Val Cys Gly Phe Val Trp Gly Gly Ala Leu Leu Thr Ser Phe  
 184 145 150 155 160  
 185 Ser Ser Leu Leu Phe Tyr Ile Cys Ser His Val Ser Thr Arg Ala Leu  
 186 165 170 175  
 187 Glu Cys Ala Lys Met Gln Asn Ala Glu Ala Ala Asp Ala Thr Leu Val  
 188 180 185 190  
 189 Phe Ile Gly Tyr Val Val Pro Ala Leu Ala Thr Leu Tyr Ala Leu Val  
 190 195 200 205  
 191 Leu Leu Ser Arg Val Arg Arg Glu Asp Thr Pro Leu Asp Arg Asp Thr  
 192 210 215 220  
 193 Gly Arg Leu Glu Pro Ser Ala His Arg Leu Leu Val Ala Thr Val Cys  
 194 225 230 235 240  
 195 Thr Gln Phe Gly Leu Trp Thr Pro His Tyr Leu Ile Leu Leu Gly His  
 196 245 250 255  
 197 Thr Val Ile Ile Ser Arg Gly Lys Pro Val Asp Ala His Tyr Leu Gly  
 198 260 265 270  
 199 Leu Leu His Phe Val Lys Asp Phe Ser Lys Leu Leu Ala Phe Ser Ser  
 200 275 280 285  
 201 Ser Phe Val Thr Pro Leu Leu Tyr Arg Tyr Met Asn Gln Ser Phe Pro  
 202 290 295 300  
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 223 ttggcaatg ctctggtgtt ctacgtggtg acccgccagca aggccatgcg caccgtcacc 240  
 224 aacatctta tctgctcctt ggcgctca gacgtgtca tcaccttctt ctgcattccc 300  
 225 gtcaccatgc tccagaacat ttccgacaac tggctgggg gtgcattcat ttgcaagatg 360  
 226 gtgcatttg tccagctac cgctgttg acagaaatcc tcactatgac ctgcattgt 420  
 227 gtggaaaggc accaggact tttgtgcattt tttaaaatga agtggcaata caccaaccga 480  
 228 agggtttca caatgttagg tttgtgtctgg ctgggtggcag tcatcgtagg atcacccatg 540  
 229 tggcacgtgc aacaacttga gatcaaataat gacttcstat atgaaaagga acacatctgc 600  
 230 tgcttagaag agtggaccag ccctgtgcac cagaagatct acaccacccat catcctgtc 660  
 231 atcctcttcc tcctgcctct tatgtgtatg cttattctgt acagtaaaat tggttatgaa 720  
 232 ctttgatata agaaaagagt tggggatgt tcagtgcctc gaactattca tggaaaagaa 780  
 233 atgtccaaa tagccaggaa gaagaaaacga gctgtcatta tggatgggtgac agtgggtggct 840  
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 235 tttgaaaagg aatatgtatg tttgtcacaatc aagatgattt tggatgtatcg gcaatttatt 960  
 236 ggatttcca actccatctg taatcccatt gtctatgcattt tttatgtatgaa aaacttcaaa 1020  
 237 aaaaatgttt tttgtctgcattt ttgttatttc atatgtatgaa aaaccttctc tccagcacaa 1080  
 238 aggcattggaa attcaggaat tacaatgtatg cggaaagaaag cttttttccctcagagag 1140  
 239 aatccagtgg aggaaaccaa aggagaagca ttcaatgtatg gcaacatgtatgaa agtcaattt 1200  
 240 tttgtgtatgaa cttttttttttt gaaaaagctc aaacgacatc ttgtctctt taggtctgaa 1260  
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245 &lt;211&gt; LENGTH: 431

246 &lt;212&gt; TYPE: PRT

247 &lt;213&gt; ORGANISM: Homo sapiens

249 &lt;220&gt; FEATURE:

250 &lt;223&gt; OTHER INFORMATION: human G-protein coupled receptor (GPCR) TGR346

252 &lt;400&gt; SEQUENCE: 6

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254 1 5 10 15

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256 20 25 30

257 Pro Leu Val Tyr Thr Pro Glu Leu Pro Gly Arg Ala Lys Leu Ala Leu

258 35 40 45

259 Val Leu Thr Gly Val Leu Ile Phe Ala Leu Ala Leu Phe Gly Asn Ala

260 50 55 60

261 Leu Val Phe Tyr Val Val Thr Arg Ser Lys Ala Met Arg Thr Val Thr

262 65 70 75 80

263 Asn Ile Phe Ile Cys Ser Leu Ala Leu Ser Asp Leu Leu Ile Thr Phe

264 85 90 95

265 Phe Cys Ile Pro Val Thr Met Leu Gln Asn Ile Ser Asp Asn Trp Leu

266 100 105 110

267 Gly Gly Ala Phe Ile Cys Lys Met Val Pro Phe Val Gln Ser Thr Ala

268 115 120 125

269 Val Val Thr Glu Ile Leu Thr Met Thr Cys Ile Ala Val Glu Arg His

270 130 135 140

271 Gln Gly Leu Val His Pro Phe Lys Met Lys Trp Gln Tyr Thr Asn Arg

272 145 150 155 160

273 Arg Ala Phe Thr Met Leu Gly Val Val Trp Leu Val Ala Val Ile Val

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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/09/990,940

DATE: 03/06/2002  
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Input Set : A:\-74-1.app  
Output Set: N:\CRF3\03062002\I990940.raw

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(1302)

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L:1515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54